



A Touchstone Energy Cooperative 

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RECEIVED

MAR 17 2014

PUBLIC SERVICE
COMMISSION

March 14, 2014

Director of Engineering
Kentucky Public Service Commission
211 Sower Blvd.
PO Box 615
Frankfort, KY 40602-0615

Re: Jackson Energy Cooperative: 2013 Annual Reliability Report
Administrative Case No. 2006-00494

Jackson Energy Cooperative respectfully submits the 2013 Annual Reliability report per the order dated October 26, 2007 in Administrative Case No. 2006-00494.

Please inform me if any further information is required.

Sincerely,

A handwritten signature in black ink that reads "Derrick Dean". The signature is fluid and cursive.

Derrick Dean
Chief Operations Officer

KENTUCKY PUBLIC SERVICE COMMISSION

Electric Distribution Utility Annual Reliability Report

SECTION 1: CONTACT INFORMATION

UTILITY NAME	1.1	<u>Jackson Energy Cooperative</u>
REPORT PREPARED BY	1.2	<u>Ricky Caudill</u>
E-MAIL ADDRESS OF PREPARER	1.3	<u>rickcaudill@jacksonenergy.com</u>
PHONE NUMBER OF PREPARER	1.4	<u>606-364-9217</u>

SECTION 2: REPORT YEAR

CALENDAR YEAR OF REPORT	2.1	<u>2013</u>
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SECTION 3: MAJOR EVENT DAYS

T_{MED}	3.1	<u>13.115</u>
FIRST DATE USED TO DETERMINE T_{MED}	3.2	<u>1/1/2013</u>
LAST DATE USED TO DETERMINE T_{MED}	3.3	<u>12/31/2013</u>
NUMBER OF MED IN REPORT YEAR	3.4	<u>2</u>

NOTE: Per IEEE 1366 T_{MED} should be calculated using the daily SAIDI values for the five prior years. If five years of data are not available, then utilities should use what is available until five years are accumulated.

SECTION 4: SYSTEM RELIABILITY RESULTS

Excluding MED

SAIDI	4.1	<u>165.54</u>
SAIFI	4.2	<u>1.3824</u>
CAIDI	4.3	<u>119.74</u>

Including MED (Optional)

SAIDI	4.4	<u>209.99</u>
SAIFI	4.5	<u>1.5377</u>
CAIDI	4.6	<u>136.55</u>

Notes:

- 1) All duration indices (SAIDI, CAIDI) are to be reported in units of minutes.
 - 2) Reports are due on the first business day of April of each year
 - 3) Reports cover the calendar year ending in the December before the reports are due.
 - 4) IEEE 1366 (latest version) is used to define SAIDI, SAIFI, CAIDI, and T_{MED}
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SECTION 5: OUTAGE CAUSE CATEGORIES

Excluding MED

CAUSE CODE DESCRIPTION	SAIDI VALUE	CAUSE CODE DESCRIPTION	SAIFI VALUE
Tree/Limb out of ROW 5.1.1	55.00	Tree/Limb out of ROW 5.2.1	0.3723
Wind 5.1.2	23.06	Unknown Cause 5.2.2	0.2007
Unknown Cause 5.1.3	17.62	Wind 5.2.3	0.1258
Equipment 5.1.4	13.06	Planned Outage 5.2.4	0.1194
Ice 5.1.5	11.11	Equipment 5.2.5	0.1188
Planned Outage 5.1.6	10.91	Lightning 5.2.6	0.0876
Lightning 5.1.7	9.05	Ice 5.2.7	0.0595
Vehicles 5.1.8	4.60	Maintenance 5.2.8	0.0506
Animal / Bird 5.1.9	4.05	Animal / Bird 5.2.9	0.0456
Tree/Limb in ROW 5.1.10	3.85	Vehicles 5.2.10	0.0443

SECTION 6: WORST PERFORMING CIRCUITS

CIRCUIT IDENTIFIER	SAIDI VALUE	MAJOR OUTAGE CATEGORY
Goose Rock - Schoolhouse F4 6.1.1	950.22	Wind
South Fork - Bear Run F1 6.1.2	914.73	Tree/Limb out of ROW
Greenbriar - Fox Hollow F4 6.1.3	662.91	Tree/Limb out of ROW
South Fork - Rice Town F2 6.1.4	641.92	Tree/Limb out of ROW
Millers Creek - Cobb Hill F1 6.1.5	567.57	Tree/Limb out of ROW
Greenbriar - Manchester F3 6.1.6	552.65	Tree/Limb out of ROW
Mareburg - Sand Spring F3 6.1.7	541.91	Tree/Limb out of ROW
Big Creek - Bear Branch F2 6.1.8	496.59	Planned Outage
Rice Station - Sand Hill F1 6.1.9	432.28	Wind
Millers Creek - Pryce F3 6.1.10	409.59	Ice

CIRCUIT IDENTIFIER	SAIFI VALUE	MAJOR OUTAGE CATEGORY
South Fork - Bear Run F1 6.2.1	7.24	Tree/Limb out of ROW
Greenbriar - Fox Hollow F4 6.2.2	6.11	Equipment
Goose Rock - Schoolhouse F4 6.2.3	6.10	Unknown Cause
Annnville - Welchburg F5 6.2.4	6.07	Unknown Cause
Mareburg - Sand Spring F3 6.2.5	4.90	Tree/Limb out of ROW
South Fork - Rice Town F2 6.2.6	4.39	Tree/Limb out of ROW
Beattyville - Heidelberg F3 6.2.7	3.93	Equipment
Maplesville - Slate Lick F3 6.2.8	3.71	Tie between Equipment and Large Animal
Big Creek - Bear Branch F2 6.2.9	3.43	Equipment
Greenhall - Trav Rest F5 6.2.10	3.11	Maintenance

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Additional pages may be attached as necessary
SECTION 7: VEGETATION MANAGEMENT PLAN REVIEW

Jackson Energy maintains an aggressive Vegetation Management Plan clearing approximately 800 miles of right-of-way annually, which also includes herbicide treatment on all cleared circuits the following year. This has allowed us to maintain a clearing cycle that is less than 6 years. However, our service territory is heavily wooded and within the National Forest and our maximum ROW width of 40' does not prevent the majority of the outage category "Tree/Limb out of ROW" identified in Section 6. We continue to utilize our Hazard Tree Program that identifies these trees "out of ROW". The hazard trees identified are removed (with property owners permission) during the normal clearing cycle.

A copy of our current Vegetation Management Plan is attached for review.

SECTION 8: UTILITY COMMENTS

Big Creek - Bear Branch F2 serves 187 consumers. Other feeders had a higher number of consumer minutes of outage but a lower SAIDI number by virtue of serving more consumers.

Annville - Welchburg F5 serves 39 consumers. Other feeders had more consumers affected but a lower SAIFI number because they served more consumers.

South Fork - Bear Run F1: Circuit was cleared in 2013 during normal clearing cycle.

Greenbriar - Fox Hollow F4: Hazard Tree Program Identification complete 2013 and crews to complete in 2014.

South Fork - Rice Town F2: Hazard Tree Program Identification complete 2013 and crews to complete in 2014.

Millers Creek - Cobb Hill F1: Hazard Tree Program Identification complete in 2012 and crews completed end of 2013.

Greenbriar - Manchester F3: Hazard Tree Program Identification complete in 2013 and crews to complete in 2014.

Maretburg - Sand Spring F3: Hazard Tree Program Identification will be done in 2014 and cut in 2014.